

## ASSIGNMENT

For valuable consideration, I, Todd H. Rider, of Acton, Massachusetts hereby assign to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02142, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled OPTOELECTRONIC SENSOR, filed December 9, 1997, and assigned U.S. Serial Number 08/987,410, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Lexington, Massachusetts,  
this 28 day of April, 1998  
Todd H. Rider L.S.  
Todd H. Rider

STATE OF Massachusetts  
COUNTY OF Middlesex: ss.

Before me this 28th day of April, 1998, personally appeared  
Todd H. Rider known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Susan M. Albert  
Notary Public

My Commission Expires: 1/22/04

[Notary's Seal Here]



01997/227001  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 13, 1998

PTAS

FISH & RICHARDSON P.C.  
ERIC L. PRAHL  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804



JUL 22 1998

FISH & RICHARDSON P.C.  
BOSTON, MA

UNITED STATES PATENT AND TRADEMARK OFFICE  
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/01/1998

REEL/FRAME: 9161/0900  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RIDER, TODD H.

DOC DATE: 04/28/1998

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF  
TECHNOLOGY  
77 MASSACHUSETTS AVENUE  
CAMBRIDGE, MASSACHUSETTS 02142

SERIAL NUMBER: 08987410  
PATENT NUMBER:

FILING DATE: 12/09/1997  
ISSUE DATE:

SHIRLIE SIMON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

MTW

05-18-1998



100713378

Assistant Commissioner for Patents

ER SHEET

Y

al document.

Attorney Docket No.: 01997/227001

1. Name of conveying party(ies):

Todd H. Rider

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: April 28, 1998

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):

08/987,410

2. Name and address of receiving party(ies):

Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge, MA 02142

Additional names/addresses attached? ☐ Yes ☒ NoAdditional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

Eric L. Prah  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40

- ☒ Enclosed  
☐ Authorized to charge deposit account

8. Deposit account number: 06-1050

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and signature:
- To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

Eric L. Prah

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 2

05/15/1998 SSMITH 00000269 08987410

01 FC:581

40.00 OP

Date of Deposit

May 1, 1998  
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Vasilica Kelly  
Vasilica Kelly

## ASSIGNMENT

For valuable consideration, we, Todd H. Rider, of Acton, Massachusetts; and Laura Smith of Carlisle, Massachusetts hereby assign to Massachusetts Institute of Technology, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02142, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled OPTOELECTRONIC SENSOR, filed October 9, 1998, and assigned U.S. Serial Number 09/169,196, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Lexington, MA,  
this 7th day of January, 1998

Todd H. Rider L.S.  
**Todd H. Rider**

STATE OF Massachusetts :ss.  
COUNTY OF Middlesex:

Before me this 7th day of January, 1998, personally appeared Todd H. Rider known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Susan M. Abbott  
Notary Public

My Commission Expires: 1/22/04

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Lexington MA,  
this 7<sup>th</sup> day of January, 1998  
[Signature] L.S.  
Laura Smith

STATE OF Massachusetts:  
COUNTY OF Middlesex: :ss.

Before me this 7<sup>th</sup> day of January, 1998, personally appeared

Laura Smith known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

[Signature]  
Notary Public

My Commission Expires: 1/22/04

[Notary's Seal Here]

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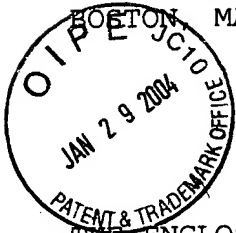
01947/224002

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 14, 1999

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FISH & RICHARDSON P.C.  
JOHN F. FISH  
225 FRANKLIN STREET  
BOSTON, MASSACHUSETTS 02110-2804



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BOSTON, MA

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RECORDATION DATE: 01/12/1999

REEL/FRAME: 9690/0728  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
RIDER, TODD H.

DOC DATE: 01/07/1999

ASSIGNOR:  
SMITH, LAURA

DOC DATE: 01/07/1999

ASSIGNEE:  
MASSACHUSETTS INSTITUTE OF  
TECHNOLOGY  
77 MASSACHUSETTS AVENUE  
CAMBRIDGE, MASSACHUSETTS 02142

SERIAL NUMBER: 09169196  
PATENT NUMBER:

FILING DATE: 10/09/1998  
ISSUE DATE:

• No Docketing Required •	
Reviewed By Practice Systems	
Initials:	<i>PTM</i>
Reviewed By Billing Secretary	
Initials:	

SHIRLIE SIMON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

01-14-1999

Serial y Docket No.: 01997/227002

RECC



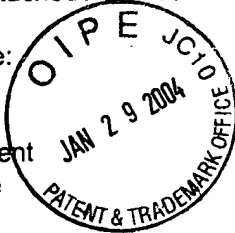
100945592

Assistant Commissioner for Patents: Please record the attached original document.

1. Name of conveying party(ies): **Todd H. Rider and Laura Smith**
2. Name and address of receiving party(ies): **Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge, Massachusetts 02142**

Additional name(s) attached? ☐ Yes ☒ NoAdditional names/addresses attached? ☐ Yes ☒ No

3. Nature of conveyance:
- ☒ Assignment
- ☐ Merger
- ☐ Security Agreement
- ☐ Change of Name
- ☐ Other:



1-12-99

Execution Date: January 7, 1999, January 7, 1999

4. Application number(s) or patent number(s):
- If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):  
**09/169,196**

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

**John T. Li, Reg. No. P-44,210  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804**

6. Total number of applications/patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40**

☒ Enclosed

☐ Authorized to charge deposit account

8. Deposit account number: **06-1050**
- If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

**John T. Li, Reg. No. P-44,210**

Name of Person Signing

Signature

*John T. Li*

Date

**1-8-99**Total number of pages including cover sheet, attachments, and document: **3**"EXPRESS MAIL" Mailing Label Number **EM518287339US**

01/13/1999 TTON11 00000076 09169196

01 FC:581

40.00 00

Date of Deposit **January 8, 1999**

I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

*Jason Kurian**John Li*